ABSTRACT

In order to extract proper signals out of signals containing jitters and skews, the most stable data rows are selected out of data rows obtained by oversampling. A regenerator circuit of serial data is comprised of means for storing serial data as received for two system clocks, means for comparing special character signals used in transmission with the data as stored for two system clocks, and determination means for determining positions (shift numbers) where patterns of the data match the special character signal, respectively, wherein correction for skews is implemented by sampling the data on the basis of information on the positions where matching is made, as determined by the determination means. Furthermore, correction for jitters and skews is implemented by a method of regenerating serial data, comprising the steps of three-times oversampling serial data as received, dividing the serial data as oversampled into three edge groups, detecting a shift number matching special characters for each of the groups by the process described, selecting an edge group undergoing the least change in shift number, and regenerating video signal from the edge group.